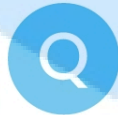




QUIZZES

Practice Test-1 (Bioenergetics and Acellular Life/Viruses)



10 Questions



7 min

Topics

Photosynthesis, Role of light and photosynthetic pigments, Role of water and CO₂

Start Quiz

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06 : 40



1/10



7 min



Hint

Q : Net equation of photosynthesis is exactly opposite to the equation of:



Lactic acid fermentation



Alcoholic fermentation



Aerobic respiration



Anaerobic respiration

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06 : 39



Q 2/10

7 min

Hint

Q : It is by product of photosynthesis:

A CO_2

B H_2O

C O_2

D $\text{C}_6\text{H}_{12}\text{O}_6$

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06 : 37



3/10



7 min



Hint

Q : All of the following are characteristics of head of chlorophyll except:



Light absorbing



Hydrophobic



Porphyrin ring



Tetrapyrrole ring

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06 : 35



Q 4/10

7 min

Hint

Q : Absorption spectrum of chlorophylls indicates that maximum absorption is at:

A 380 nm

B 430 nm

C 500 nm

D 620 nm

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06 : 32



5/10



7 min



Hint

Q : Which of the following colour is absorbed by carotenoids and reflected by chlorophylls?



Blue



Green



Violet



Red

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06 : 30



6/10



7 min



Hint

Q : Light can work in chloroplast if it is:



Transmitted



Reflected



Absorbed



Refracted

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06 : 28



7/10



7 min



Hint

Q : All of the following functions are attributed to carotenoids except:



Broaden absorption spectrum



Dissipation of energy



Protection to chlorophylls



Conversion of energy to ATP

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06 : 27



8/10



7 min



Hint

Q : The molecular formula for chlorophyll a is:



$C_{55}H_{70}O_5N_4Mg$



$C_{55}H_{70}O_6N_4Mg$



$C_{55}H_{72}O_5N_4Mg$



$C_{55}H_{72}O_6N_4Mg$

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06 : 25



9/10



7 min



Hint

Q : Correct order of transfer of energy for photosynthesis is:



Carotenoids > Chl. a > Chl. b



Carotenoids > Chl. b > Chl. a



Chl. a > Chl. b > Carotenoids



Chl. b > Chl. a > Carotenoids

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06 : 21



10/10



7 min



Hint

Q : The entry of CO_2 in leaves mainly depends upon:



Area covered by air spaces



Thickness of leaves



Opening of stomata



Respiratory activity of plants

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QUIZ RESULT

Practice Test-1 (Bioenergetics and Acellular Life/Viruses)



10



7 min



05-Apr-2021



0 sec



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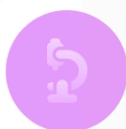
Result Detail

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Correct	0
Incorrect	0
Unattempted	10

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A+ 0



Correct



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1/10

Q : Net equation of photosynthesis is exactly opposite to the equation of:

A

Lactic acid fermentation

B

Alcoholic fermentation

C

Aerobic respiration

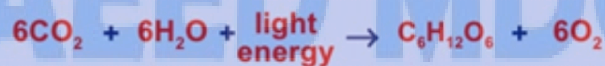
D

Anaerobic respiration

Explanation

Photosynthesis

carbon + water + energy → glucose + oxygen
dioxide



Respiration

glucose + oxygen → carbon + water + energy
dioxide



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Correct



Unattempted



Incorrect



2/10

Q : It is by product of photosynthesis:

A

CO_2

B

H_2O

C

O_2

D

$\text{C}_6\text{H}_{12}\text{O}_6$

Explanation

Photolysis of water provides protons for reduction of NADP^+ to NADPH_2 and oxygen is released as byproduct.

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Practice Test-1 (Bioenergetics and Acellular Life/Vi...



Correct



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Incorrect



3/10

Q : All of the following are characteristics of head of chlorophyll except:

A

Light absorbing

B

Hydrophobic

C

Porphyrin ring

D

Tetrapyrrole ring

Explanation

Four pyrrole rings join to form a Porphyrin ring that is light absorbing, hydrophilic head.

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Correct



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Incorrect



4/10

Q : Absorption spectrum of chlorophylls indicates that maximum absorption is at:

A

380 nm

B

430 nm

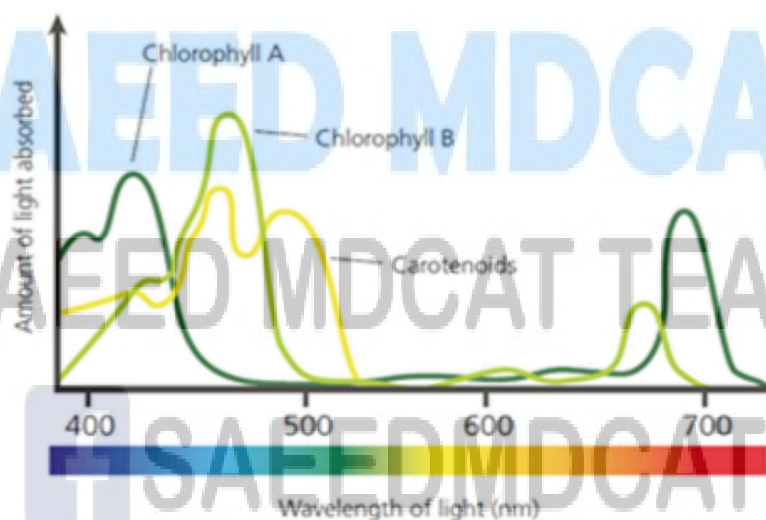
C

500 nm

D

620 nm

Explanation



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Correct



Unattempted



Incorrect



5/10

Q : Which of the following colour is absorbed by carotenoids and reflected by chlorophylls?

A

Blue

B

Green

C

Violet

D

Red

Explanation

Accessory pigments absorb the wavelengths not absorbed by chlorophylls.

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Unattempted



Incorrect



6/10

Q : Light can work in chloroplast if it is:

A

Transmitted

B

Reflected

C

Absorbed

D

Refracted

Explanation

Chlorophylls and other pigments in chloroplast trap light energy and convert it into the chemical energy of ATP and reducing power of NADPH_2 .

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Unattempted



Incorrect



7/10

Q : All of the following functions are attributed to carotenoids except:

A

Broaden absorption spectrum

B

Dissipation of energy

C

Protection to chlorophylls

D

Conversion of energy to ATP

Explanation

Carotenoids are accessory pigments and do not directly take part in the light dependent reaction of photosynthesis.

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Incorrect



8/10

Q : The molecular formula for chlorophyll a is:

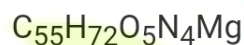
A



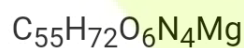
B



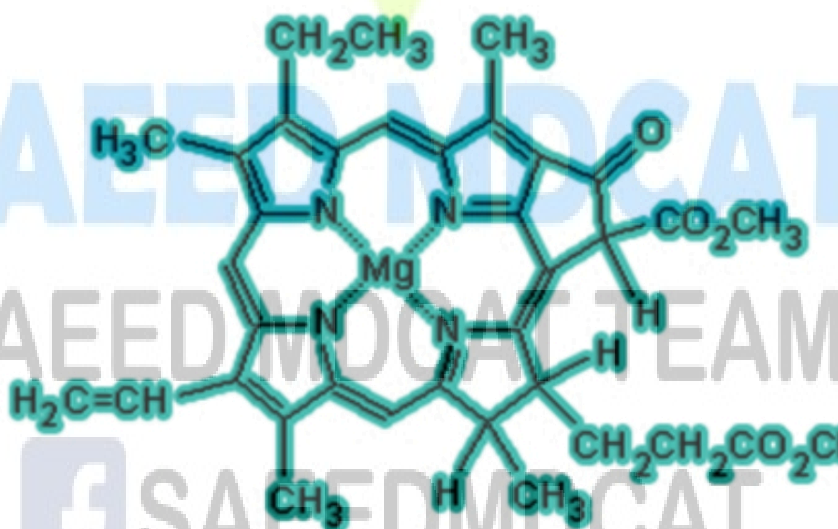
C



D



Explanation



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9/10

Q : Correct order of transfer of energy for photosynthesis is:



Carotenoids > Chl. a > Chl. b



Carotenoids > Chl. b > Chl. a

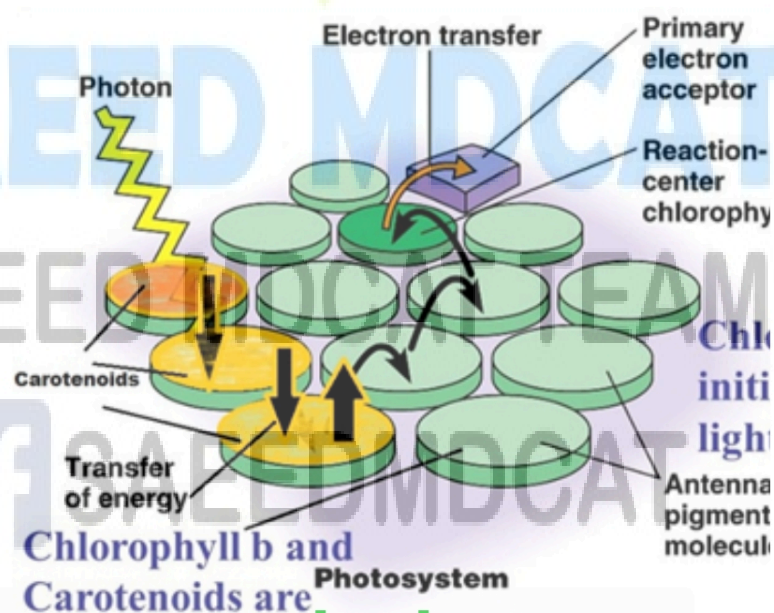


Chl. a > Chl. b > Carotenoids



Chl. b > Chl. a > Carotenoids

Explanation



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Correct



Unattempted



Incorrect



10/10

Q : The entry of CO_2 in leaves mainly depends upon:

A

Area covered by air spaces

B

Thickness of leaves

C

Opening of stomata

D

Respiratory activity of plants

Explanation

Exchange of gases mainly occur through stomata of leaves.

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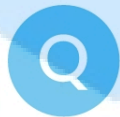
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QUIZZES

Practice Test-2 (Bioenergetics & Acellular Life/
Viruses)



10 Questions



7 min

Topics

Light dependent reactions (Production of ATP via ETC/
Chemiosmosis), Light independent reaction, Cellular
respiration (Aerobic and Anaerobic Reactions)

Start Quiz

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06 : 58



1/10



7 min



Hint

Q : Electron hole of chlorophyll in PS II is filled by electron that is extracted from:



Water



Carbon dioxide



Plastocyanin



NADPH₂

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06 : 57



2/10



7 min



Hint

Q : The main difference between photosystem I and photosystem II lies in their:



Antenna complex



Reaction center



Chlorophyll a



Chlorophyll b

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06 : 55



3/10



7 min



Hint

Q : How many photons are required to excite one electron from chlorophyll molecule?



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4

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06 : 53



4/10



7 min



Hint

Q : First step in non-cyclic photophosphorylation is:



Photolysis of water



Photoexcitation of electrons



Electron transport



Formation of ATP & NADPH

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06 : 51



5/10



7 min



Hint

Q : During chemiosmosis in photosynthesis, protons are pumped from:



Stroma to thylakoid space



Thylakoid space to stroma



Mitochondrial matrix to cristae



Cristae to mitochondrial matrix

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06 : 50



6/10



7 min



Hint

Q : A product of dark reaction of photosynthesis other than carbohydrate is:



ATP



NADPH



H₂O



O₂

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06 : 48



7/10



7 min



Hint

Q : In light independent stage of photosynthesis, the CO_2 combines with RuBP to form:

A

Unstable 6-carbon intermediate

B

Stable 6-carbon intermediate

C

Unstable 3-carbon intermediate

D

Stable 3-carbon intermediate

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06 : 46



8/10



7 min



Hint

Q : During Calvin cycle, how many molecules of G3P are recycled to regenerate three molecules of RuBP?



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06 : 44



9/10



7 min



Hint

Q : The most common fuel used by the cell to provide energy by cellular respiration is:



Glycogen



Glucose



Protein



Fat

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06 : 42



10/10



7 min



Hint

Q : Which of the following is not an oxidation reaction?



Breakdown of glucose to pyruvate



Conversion of pyruvate to acetyl CoA



Conversion of fumarate to malate



Conversion of pyruvate to lactic acid

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QUIZ RESULT

Practice Test-2 (Bioenergetics & Acellular Life/
Viruses)



10



7 min



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Result Detail

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Correct	0
Incorrect	0
Unattempted	10

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Biology

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Correct



Unattempted



Incorrect



1/10

Q : Electron hole of chlorophyll in PS II is filled by electron that is extracted from:

A

Water

B

Carbon dioxide

C

Plastocyanin

D

NADPH₂

Explanation

Hole containing reaction center chlorophyll of PS II is strong oxidizing agent and extracts electrons by splitting water in the absence of light with the help of an enzyme (photolysis).

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Correct



Unattempted



Incorrect



2/10

Q : The main difference between photosystem I and photosystem II lies in their:

A

Antenna complex

B

Reaction center

C

Chlorophyll a

D

Chlorophyll b

Explanation

Photosystem I has P_{700} while photosystem II has P_{680} chlorophyll in reaction center.

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Correct



Unattempted



Incorrect



3/10

Q : How many photons are required to excite one electron from chlorophyll molecule?

A

1

B

2

C

3

D

4

Explanation

Electron is excited when striking photon has so much energy to excite the target electron.

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Correct



Unattempted



Incorrect



4/10

Q : First step in non-cyclic photophosphorylation is:

A

Photolysis of water

B

Photoexcitation of electrons

C

Electron transport

D

Formation of ATP & NADPH

Explanation

Light falling on photosystems excite the electrons in reaction center chlorophyll and this electron provides energy for light dependent reactions.

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5/10

Q : During chemiosmosis in photosynthesis, protons are pumped from:

A

Stroma to thylakoid space

B

Thylakoid space to stroma

C

Mitochondrial matrix to cristae

D

Cristae to mitochondrial matrix

Explanation

Protons are produced due to photolysis of water that occurs in stroma of chloroplast.

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Correct



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6/10

Q : A product of dark reaction of photosynthesis other than carbohydrate is:

A

ATP

B

NADPH

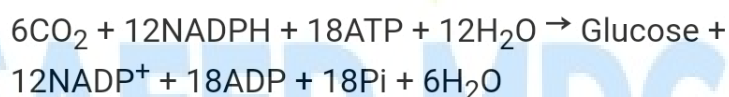
C

H₂O

D

O₂

Explanation



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Correct



Unattempted



Incorrect



7/10

Q : In light independent stage of photosynthesis, the CO_2 combines with RuBP to form:



Unstable 6-carbon intermediate



Stable 6-carbon intermediate



Unstable 3-carbon intermediate



Stable 3-carbon intermediate

Explanation

CO_2 combines with 5 carbon RuBP to form an unstable 6 Carbon compound that immediately breaks down.

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Correct



Unattempted



Incorrect



8/10

Q : During Calvin cycle, how many molecules of G3P are recycled to regenerate three molecules of RuBP?

A

1

B

3

C

5

D

6

Explanation

Carbon skeleton of fifteen carbon atoms including five molecules of G3P (3 carbon compound). is recycled to generate three molecule of RuBP (5 carbon compound).

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Correct



Unattempted



Incorrect



9/10

Q : The most common fuel used by the cell to provide energy by cellular respiration is:

A

Glycogen

B

Glucose

C

Protein

D

Fat

Explanation

Glucose is directly metabolized in cell through glycolysis and Krebs cycle and provides ATP for various metabolic processes.

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10/10

Q : Which of the following is not an oxidation reaction?

A

Breakdown of glucose to pyruvate

B

Conversion of pyruvate to acetyl CoA

C

Conversion of fumarate to malate

D

Conversion of pyruvate to lactic acid

Explanation

In the absence of oxygen pyruvate is reduced to lactic acid or alcohol.

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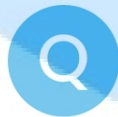
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QUIZZES

Practice Test-3 (Bioenergetics & Acellular Life/
Viruses)



10 Questions



7 min

Topics

Glycolysis, Pyruvic acid oxidation, Kerbs cycle,
Respiratory chain and Oxidative phosphorylation

Start Quiz

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06 : 58



1/10



7 min



Hint

Q : Both ATP production and consumption are the feature of only:



Glycolysis



Krebs cycle



Link reaction



Electron transport chain

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06 : 57



2/10



7 min



Hint

Q : It is the product of preparatory phase of glycolysis:



ATP



Pyruvate



PGAL



Lactate

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06 : 55



3/10



7 min



Hint

Q : Glycolysis starts with:



Splitting of glucose molecule



Phosphorylation of glucose



Hydrolysis of glucose



Reduction of glucose

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06 : 53



4/10



7 min



Hint

Q : How many ATPs are produced during preparatory phase of glycolysis?



2



4



6



0

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06 : 51



5/10



7 min



Hint

Q : Site of pyruvic acid oxidation is:



Cytoplasmic side of outer mitochondrial membrane



Inner mitochondrial membrane



Mitochondrial matrix



Cytosol

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06 : 49



6/10



7 min



Hint

Q : All of the following processes are related to pyruvic acid oxidation except?



Decarboxylation



Oxidation



Addition of acetyl-CoA



Carboxylation

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06 : 47



7/10



7 min



Hint

Q : During Krebs cycle, FADH_2 is formed during conversion of:



Iso-citrate into α -ketoglutarate



α -ketoglutarate into succinate



Succinate into fumarate



Fumarate into malate

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06 : 45



8/10



7 min



Hint

Q : The first step in Krebs cycle is the union of acetyl CoA with:



Citrate



α -ketoglutarate



Oxaloacetate



Succinate

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06 : 44



9/10



7 min



Hint

Q : In respiratory chain, NADH is oxidized by:



FADH₂



ATP



Co-enzyme Q



O₂

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06 : 41



10/10



7 min



Hint

Q : Formation of ATP at respiratory chain is called:



Cyclic photophosphorylation



Non-cyclic photophosphorylation



Substrate level phosphorylation



Oxidative phosphorylation

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06 : 17



10/10



7 min



Hint

Q : Formation of ATP at respiratory chain is called:



Cyclic photophosphorylation



Non-cyclic photophosphorylation



Substrate level phosphorylation



Oxidative phosphorylation

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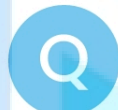
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QUIZ RESULT

Practice Test-3 (Bioenergetics & Acellular Life/
Viruses)



10



7 min



05-Apr-2021



0 sec



0/10



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Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

Correct	0
Incorrect	0
Unattempted	10

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FB) SAEED MDCAT

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Biology

0%



Correct



Unattempted



Incorrect



1/10

Q : Both ATP production and consumption are the feature of only:

A

Glycolysis

B

Krebs cycle

C

Link reaction

D

Electron transport chain

Explanation

Glycolysis is the only step of cellular respiration that uses ATP is preparatory phase and produced ATP in oxidative phase.

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Correct



Unattempted



Incorrect



2/10

Q : It is the product of preparatory phase of glycolysis:

A

ATP

B

Pyruvate

C

PGAL

D

Lactate

Explanation

In first phase of glycolysis glucose splits to form PGAL and DAP which is also converted to PGAL for use second phase of glycolysis.

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SAEED MDCAT TEAM



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Correct



Unattempted



Incorrect



3/10

Q : Glycolysis starts with:

A

Splitting of glucose molecule

B

Phosphorylation of glucose

C

Hydrolysis of glucose

D

Reduction of glucose

Explanation

First step of glycolysis is the formation of glucose-6-phosphate.

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Correct



Unattempted



Incorrect



4/10

Q : How many ATPs are produced during preparatory phase of glycolysis?

A

2

B

4

C

6

D

0

Explanation

2 ATPs are used during preparatory phase for the activation of glucose to break.

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Correct



Unattempted



Incorrect



5/10

Q : Site of pyruvic acid oxidation is:

A

Cytoplasmic side of outer mitochondrial membrane

B

Inner mitochondrial membrane

C

Mitochondrial matrix

D

Cytosol

Explanation

Enzyme responsible for pyruvic acid oxidation is present in mitochondrial matrix

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Correct



Unattempted



Incorrect



6/10

Q : All of the following processes are related to pyruvic acid oxidation except?

A

Decarboxylation

B

Oxidation

C

Addition of acetyl-CoA

D

Carboxylation

Explanation

During pyruvic acid oxidation, a molecule of CO_2 is released (decarboxylation).

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SAEED MDCAT TEAM



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Correct



Unattempted



Incorrect



7/10

Q : During Krebs cycle, FADH_2 is formed during conversion of:

A

Iso-citrate into α -ketoglutarate

B

α -ketoglutarate into succinate

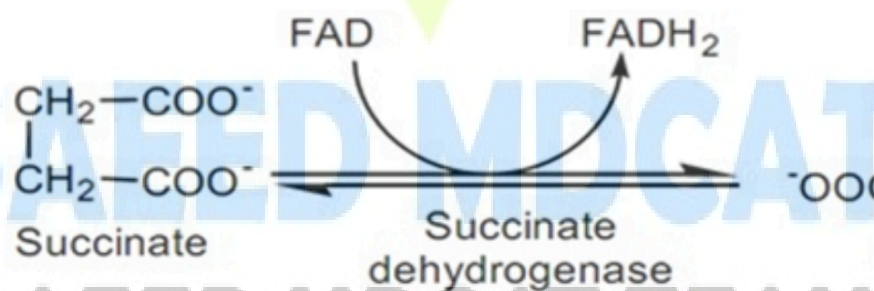
C

Succinate into fumarate

D

Fumarate into malate

Explanation



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Correct



Unattempted



Incorrect



8/10

Q : The first step in Krebs cycle is the union of acetyl CoA with:

A

Citrate

B

α -ketogluterate

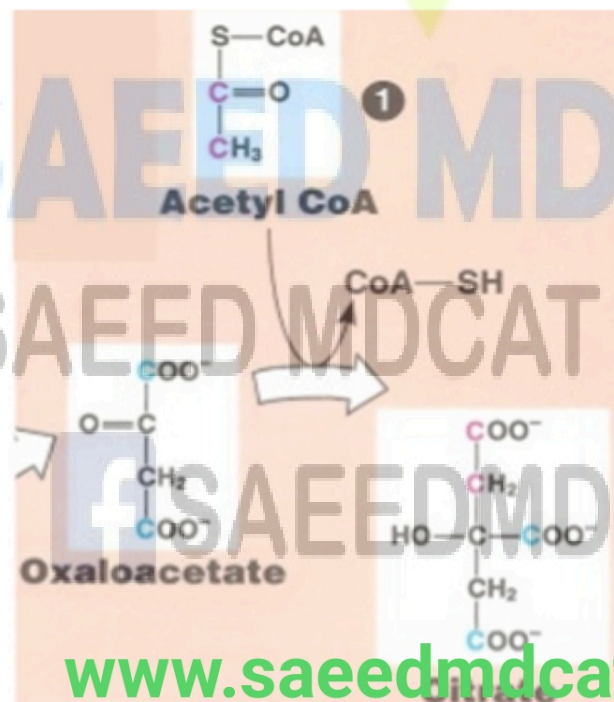
C

Oxaloacetate

D

Succinate

Explanation





Correct



Unattempted



Incorrect



9/10

Q : In respiratory chain, NADH is oxidized by:

A

FADH₂

B

ATP

C

Co-enzyme Q

D

O₂

Explanation

In respiratory chain Co-enzyme Q receives electrons from NADH directly.

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Correct



Unattempted



Incorrect



10/10

Q : Formation of ATP at respiratory chain is called:

A

Cyclic photophosphorylation

B

Non-cyclic photophosphorylation

C

Substrate level phosphorylation

D

Oxidative phosphorylation

Explanation

In respiratory chain ATP is produced in the presence of oxygen so it is called as oxidative phosphorylation.

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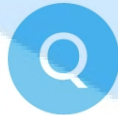
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QUIZZES

Practice Test-4 (Bioenergetics & Acellular Life/
Viruses)



10 Questions



7 min

Topics

Discovery of viruses, Structure of viruses

Start Quiz

SAEED MDCAT

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06 : 58



1/10



7 min



Hint

Q : Who discovered that the agents which caused tobacco mosaic disease were filterable?



Louis Pasteur



Charles Chamberland



Ivanowski



Stanley

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06 : 56



2/10



7 min



Hint

Q : First virus which was purified and crystallized was:



Pox virus



Tobacco mosaic virus



Rabies virus



Bacteriophage

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06 : 55



3/10



7 min



Hint

Q : These are non-cellular infectious entities which contain either RNA or DNA:



Viroids



Prions



Viruses



Pathogens

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06 : 53



4/10



7 min



Hint

Q : It is present in all viruses:



DNA



RNA



Capsid



Envelop

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06 : 46



5/10



7 min



Hint

Q : It gives definite shape to the virion:



DNA



RNA



Capsid



Envelope

SAEED MDCAT

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06 : 45



6/10



7 min



Hint

Q : Members of which of the following group are all parasites?



Viruses



Bacteria



Fungi



Protozoa

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06 : 41



7/10



7 min



Hint

Q : Viruses are:



Facultative intercellular parasites



Obligate intercellular parasites



Facultative intracellular parasites



Obligate intracellular parasites

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06 : 39



8/10



7 min



Hint

Q : Number of capsomeres in capsid of herpes virus is:



152



162



252



262

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06 : 37



9/10



7 min



Hint

Q : All of the following viral components are synthesized in host cell by using its metabolic machinery except:



DNA



RNA



Capsid



Envelope

SAEED MDCAT

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06 : 35



10/10



7 min



Hint

Q : These are the largest known viruses:



Parvoviruses



Pox viruses



Paramyxoviruses



Retroviruses

SAEED MDCAT

SAEED MDCAT TEAM



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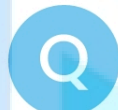
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QUIZ RESULT

Practice Test-4 (Bioenergetics & Acellular Life/
Viruses)



10



7 min



05-Apr-2021



0 sec



0/10



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Result Detail

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SAEEDMDCAT



Correct

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Incorrect

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Unattempted

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FB) SAEED MDCAT



Biology

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Correct



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Incorrect



1/10

Q : Who discovered that the agents which caused tobacco mosaic disease were filterable?

A

Louis Pasteur

B

Charles Chamberland

C

Ivanowski

D

Stanley

Explanation

Ivanowski discovered that viruses are filterable. Stanley was involved in crystallization of TMV. Charles Chamberland found that rabies virus can pass through porcelain filters. Louis Pasteur used the term vaccination.

SAEED MDCAT TEAM



SAEEDMDCAT

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FB)SAEED MDCAT

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Correct



Unattempted



Incorrect



1/10

Q : Who discovered that the agents which caused tobacco mosaic disease were filterable?

A

Louis Pasteur

B

Charles Chamberland

C

Ivanowski

D

Stanley

Explanation

Ivanowski discovered that viruses are filterable. Stanley was involved in crystallization of TMV. Charles Chamberland found that rabies virus can pass through porcelain filters. Louis Pasteur used the term vaccination.

SAEED MDCAT TEAM



SAEEDMDCAT

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Correct



Unattempted



Incorrect



2/10

Q : First virus which was purified and crystallized was:

A

Pox virus

B

Tobacco mosaic virus

C

Rabies virus

D

Bacteriophage

Explanation

W.M.Stanley first time isolated, purified and crystallized TMV.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



3/10

Q : These are non-cellular infectious entities which contain either RNA or DNA:

A

Viroids

B

Prions

C

Viruses

D

Pathogens

Explanation

Viroids contains only RNA, prions contain only proteins while pathogen is a broader term and can be used for any organism causing disease.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



4/10

Q : It is present in all viruses:

A

DNA

B

RNA

C

Capsid

D

Envelop

Explanation

- Viruses contain DNA or RNA.
- Viruses may be enveloped or non-enveloped.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



5/10

Q : It gives definite shape to the virion:

A

DNA

B

RNA

C

Capsid

D

Envelope

Explanation

Viruses are surrounded by protein coat called capsid. On base of capsid, viruses have two types of symmetry i.e. cubical or helical.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



6/10

Q : Members of which of the following group are all parasites?

A

Viruses

B

Bacteria

C

Fungi

D

Protozoa

Explanation

- Bacteria can be parasitic, saprotrophic, chemosynthetic, photosynthetic and symbiont.
- Fungi can be parasitic and saprotrophic.
- Protozoa can be parasite or free living

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



7/10

Q : Viruses are:

A

Facultative intercellular parasites

B

Obligate intercellular parasites

C

Facultative intracellular parasites

D

Obligate intracellular parasites

Explanation

- Viruses replicate only inside living host cell.
- Viruses are obligate and cannot be grown on artificial culture media.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Practice Test-4 (Bioenergetics & Molecular Biology, Viru...



Correct



Unattempted



Incorrect



8/10

Q : Number of capsomeres in capsid of herpes virus is:

A

152

B

162

C

252

D

262

Explanation

162 in herpes virus and 252 in adenovirus.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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Correct



Unattempted



Incorrect



9/10

Q : All of the following viral components are synthesized in host cell by using its metabolic machinery except:

A

DNA

B

RNA

C

Capsid

D

Envelope

Explanation

Virus takes host membrane as envelope.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



10/10

Q : These are the largest known viruses:

A

Parvoviruses

B

Pox viruses

C

Paramyxoviruses

D

Retroviruses

Explanation

Pox viruses are largest known viruses with size of about 250 nm.

SAEED MDCAT

SAEED MDCAT TEAM

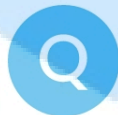


SAEEDMDCAT



QUIZZES

Practice Test-5 (Bioenergetics & Acellular Life/
Viruses)



10 Questions



7 min

Topics

Bacteriophages (Structure and Life Cycle), Viral
diseases, HIV and AIDS

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 58



1/10



7 min



Hint

Q : Which of the following part in T_4 phage contains contractile proteins?

A

Capsid

B

Tail fibers

C

Tail core

D

Tail sheath

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 56



2/10



7 min



Hint

Q : Shape of head of a Bacteriophage is:



Spiral



Elongated pyramidal



Pyramidal



Cubical

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 54



3/10



7 min



Hint

Q : Genome of T4 bacteriophage contains:

A

Single stranded DNA

B

Double stranded DNA

C

Single stranded RNA

D

Double stranded RNA

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 52



4/10



7 min



Hint

Q : Receptor site for attachment of T4 phage is present on:



Cell wall of *E. coli*



CD 4 site of *E. coli*



CD 4 site on helper T-cell



Cell membrane of *E. coli*

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 50

Q 5/10

7 min

Hint

Q : It is also called as infusion hepatitis:

A Hepatitis A

B Hepatitis B

C Hepatitis C

D Hepatitis D

SAEED MDCAT

SAEED MDCAT TEAM

f SAEEDMDCAT

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06 : 49



6/10



7 min



Hint

Q : Most commonly, lesions can be seen around mouth, lips and at other skin sites in:



Influenza



Herpes



Polio



Mumps

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 47



7/10



7 min



Hint

Q : Retroviruses contain:



Single stranded RNA



Single stranded DNA



Double stranded RNA



Double stranded DNA

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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9

06 : 46



8/10



7 min



Hint

Q : Which of the following virus has special affiliations with the tumor production?

A

Hepatitis virus

B

Retrovirus

C

Pox virus

D

Viroid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 44



9/10



7 min



Hint

Q : Capsid of HIV is:



Spherical



Polyhedral



Conical



Tubular

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 41



10/10



7 min



Hint

Q : During reverse transcription, for synthesis of double stranded DNA, which of the following acts as template?

A

RNA strand

B

DNA strand

C

Protein molecule

D

Both RNA & DNA strands

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SAEED MDCAT TEAM



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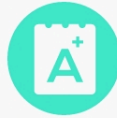
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QUIZ RESULT

Practice Test-5 (Bioenergetics & Acellular Life/
Viruses)



10



7 min



05-Apr-2021



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Result Detail

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SAEED MDCAT TEAM



SAEEDMDCAT

Correct	0
Incorrect	0
Unattempted	10



Biology

0%



Correct



Unattempted



Incorrect



1/10

Q : Which of the following part in T_4 phage contains contractile proteins?



A Capsid



B Tail fibers



C Tail core



D Tail sheath

Explanation

Tail sheath contains contractile proteins while tail core contains non-contractile proteins.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



2/10

Q : Shape of head of a Bacteriophage is:

A

Spiral

B

Elongated pyramidal

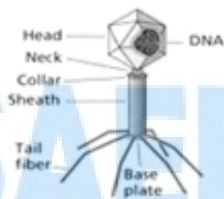
C

Pyramidal

D

Cubical

Explanation



SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



3/10

Q : Genome of T4 bacteriophage contains:

A

Single stranded DNA

B

Double stranded DNA

C

Single stranded RNA

D

Double stranded RNA

Explanation

T4 phage genome is consist of double stranded DNA.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



4/10

Q : Receptor site for attachment of T4 phage is present on:

A

Cell wall of *E. coli*

B

CD 4 site of *E. coli*

C

CD 4 site on helper T-cell

D

Cell membrane of *E. coli*

Explanation

There occurs weak chemical union between tail fibers and receptors present on cell wall.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



5/10

Q : It is also called as infusion hepatitis:

A

Hepatitis A

B

Hepatitis B

C

Hepatitis C

D

Hepatitis D

Explanation

Hepatitis A was called as infectious hepatitis and hepatitis B as serum hepatitis.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



6/10

Q : Most commonly, lesions can be seen around mouth, lips and at other skin sites in:

A

Influenza

B

Herpes

C

Polio

D

Mumps

Explanation

In oral herpes, blisters are usually formed at these sites.

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Practice Test-5 (Bioenergetics & Molecular Biology, Viru...



Correct



Unattempted



Incorrect



7/10

Q : Retroviruses contain:

A

Single stranded RNA

B

Single stranded DNA

C

Double stranded RNA

D

Double stranded DNA

Explanation

All retroviruses are RNA viruses containing copies of single stranded RNA as genome.

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1

2

3

4

5

6

7

8

9



Correct



Unattempted



Incorrect



8/10

Q : Which of the following virus has special affiliations with the tumor production?

A

Hepatitis virus

B

Retrovirus

C

Pox virus

D

Viroid

Explanation

Some of the retroviruses are also oncovirus.

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Correct



Unattempted



Incorrect



9/10

Q : Capsid of HIV is:

A

Spherical

B

Polyhedral

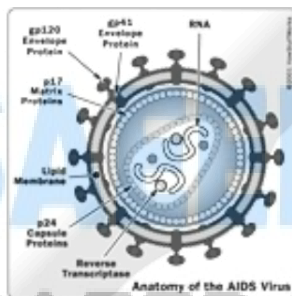
C

Conical

D

Tubular

Explanation



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Correct



Unattempted



Incorrect



10/10

Q : During reverse transcription, for synthesis of double stranded DNA, which of the following acts as template?

A

RNA strand

B

DNA strand

C

Protein molecule

D

Both RNA & DNA strands

Explanation

RNA (Template) → Single strand of cDNA

Single strand of cDNA (Template) → Double stranded DNA

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